Title (en)

Detecting a saliency region in an image

Title (de)

Erkennung eines Ausgeprägtheitsbereich in einem Bild

Title (fr)

Détection d'une région de saillance dans une image

Publication

EP 2797052 B1 20191016 (EN)

Application

EP 14158081 A 20140306

Priority

JP 2013094756 A 20130426

Abstract (en)

[origin: EP2797052A2] This invention realizes an image processing device or the like capable of detecting a salient region from one image with precision by effectively using Bayes' theorem even when prior information regarding the salient region is not given. A prior probability calculating unit calculates prior probability of a salient region so as to increase prior probability of each of pixels constructing a superpixel whose color distance from the periphery is large, a likelihood calculating unit calculates likelihood of the salient region, and a salient region detecting unit calculates posterior probability of the salient region by using the prior probability and the likelihood.

IPC 8 full level

G06V 10/25 (2022.01); **G06T 7/00** (2017.01)

CPC (source: EP US)

G06T 7/11 (2016.12 - EP US); **G06T 7/143** (2016.12 - EP US); **G06V 10/25** (2022.01 - EP US); G06T 2207/10024 (2013.01 - EP US); G06T 2207/20164 (2013.01 - EP US)

Cited by

CN108171236A; CN104680523A; CN114913472A

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

EP 2797052 A2 20141029; **EP 2797052 A3 20151125**; **EP 2797052 B1 20191016**; CN 104123718 A 20141029; CN 104123718 B 20170412; JP 2014215925 A 20141117; JP 6136537 B2 20170531; KR 101570290 B1 20151118; KR 20140128226 A 20141105; US 2014321754 A1 20141030; US 9020270 B2 20150428

DOCDB simple family (application)

EP 14158081 A 20140306; CN 201410123175 A 20140328; JP 2013094756 A 20130426; KR 20140032608 A 20140320; US 201414228074 A 20140327